

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A system for analyzing a ~~analysing the~~ condition of a machine having a rotating shaft ~~(8)~~ and a machine body with a measuring point, ~~(12)~~ the system comprising a client part connectable to a communications network ~~(18)~~ for communication with a supplier part computer, ~~(20)~~ said client part comprising:

a sensor ~~(10)~~ attachable on or at said measuring point ~~(12)~~ for generating measurement data dependent on rotation of said shaft;

an analysis apparatus ~~(14)~~ for analysing the condition of the machine on the basis of said measurement data, [[;]] said analysis apparatus ~~(14)~~ having comprising:

at least one input for receiving said measurement data;

a data processing means for processing condition data dependent on said measurement data, [[;]] said data processing means comprising means for performing a plurality of condition monitoring functions ~~(F1, F2, Fn); and~~

a logger for registering use of at least one of said condition monitoring functions ~~(F1, F2, Fn); and~~

a communication port ~~(16)~~ coupled to said data processing means and connectable to said communications network ~~(18)~~ for communication with said supplier part computer ~~(20)~~;

wherein said analysis apparatus is adapted to deliver information indicative of said registered use on said communication port ~~(16)~~ for delivery to said supplier part computer ~~(20)~~.

2. (original) The apparatus according to claim 1, wherein

said logger is adapted to register use of a first condition monitoring function a first rate; and

said logger is adapted to register use a second condition monitoring function at a second rate.

3. (original) The apparatus according to claim 2, wherein

said second rate is such that use registered at said second rate causes a higher cost per unit of usage than use registered at said first rate.

4. (original) The apparatus according to claim 2, wherein

said second rate is such that use registered at said second rate causes a lower cost per unit of usage than use registered at said first rate.

5. (currently amended) The apparatus according to claim 1, wherein:

said registered use is a parameter indicative of a number of executions of at least one of said condition monitoring functions ~~(F1, F2, Fn)~~.

6. (previously presented) The apparatus according to claim 1, wherein:

said registered use is a parameter indicative of an extent of time.

7. (currently amended) The apparatus according to claim 1, wherein

said plurality of condition monitoring functions ~~(F1, F2, Fn)~~ includes at least one ~~or two or three or more~~ function[[s]] selected from the group consisting of: vibration analysis, temperature analysis, shock pulse measuring, spectrum analysis of shock pulse measurement data, Fast Fourier Transformation of vibration measurement data, graphical presentation of condition data on a user interface, storage of condition data in a writeable information carrier on said

machine, storage of condition data in a writeable information carrier in said apparatus, tachomentering, imbalance detection, misalignment detection.

8. (currently amended) The apparatus according to claim 1, wherein

said plurality of condition monitoring functions ~~(F1, F2, Fn)~~ includes a function for imbalance detection.

9. (currently amended) The apparatus according to claim 1, wherein

said plurality of condition monitoring functions ~~(F1, F2, Fn)~~ includes a function for balancing.

10. (currently amended) The apparatus according to claim 1, wherein

said plurality of condition monitoring functions ~~(F1, F2, Fn)~~ includes a function for misalignment detection.

11. (currently amended) The apparatus according to claim 1, wherein

said plurality of condition monitoring functions ~~(F1, F2, Fn)~~ includes a function for alignment.

12. (currently amended) An apparatus for analyzing a  
~~analysing the~~ condition of a machine having a rotating shaft ~~(8)~~  
and a machine body with a measuring point ~~(12)~~, comprising:

a sensor ~~(10)~~ attachable on or at said measuring point  
~~(12)~~ for generating measurement data dependent on rotation of  
said shaft;

data processing means for processing condition data  
dependent on said measurement data, [[;]] said data processing  
means comprising means for performing a plurality of condition  
monitoring functions ~~(F1, F2, Fn)~~;

a logger for registering a value indicative of an  
amount of use of at least one of said condition monitoring  
functions; and ~~(F1, F2, Fn)~~

a communication port ~~(16)~~ coupled to said data  
processing means;

wherein said ~~analysis~~ apparatus for analyzing is  
adapted to deliver information representing ~~indicative of~~ said  
registered value indicative of an amount of use ~~on~~ by way of said  
communication port ~~(16)~~;.

13. (original) The apparatus according to claim 12,  
wherein

said logger is adapted to register use of a first  
condition monitoring function a first rate; and

said logger is adapted to register use a second condition monitoring function at a second rate.

14. (original) The apparatus according to claim 13, wherein

said second rate is such that use registered at said second rate causes a higher cost per unit of usage than use registered at said first rate.

15. (original) The apparatus according to claim 13, wherein

said second rate is such that use registered at said second rate causes a lower cost per unit of usage than use registered at said first rate.

16. (currently amended) The apparatus according to claim 1, wherein:

said registered use is a parameter indicative of a number of executions of at least one of said condition monitoring functions ~~(F1, F2, Fn)~~.

17. (previously presented) The apparatus according to claim 1, wherein:

said registered use is a parameter indicative of an extent of time.

18. (previously presented) The apparatus according to claim 2, further comprising

means for causing a user interface to indicate when use is registered at said first rate.

19. (previously presented) The apparatus according to claim 2, further comprising

means for causing a user interface to indicate when use is registered at said second rate.

20. (currently amended) The apparatus according to claim 2, wherein

said logger is adapted to register use of at least two of said condition monitoring functions ~~(F1, F2, Fn)~~; and

wherein

said logger is adapted to register use of a first condition monitoring function at a third rate; and

said logger is adapted to register use of a second condition monitoring function at a fourth rate, said fourth rate deviating from said third rate.

21. (original) The apparatus according to claim 20, wherein

said fourth rate is such that use registered at said fourth rate causes a higher cost per unit of usage than use registered at said third rate.

22. (original) The apparatus according to claim 20, wherein

said fourth rate is such that use registered at said fourth rate causes a lower cost per unit of usage than use registered at said third rate.

23. (currently amended) The apparatus according to claim 12, wherein

said plurality of condition monitoring functions ~~(F1, F2, Fn)~~ includes at least two ~~or three or more~~ functions selected from the group consisting of: vibration analysis, temperature analysis, shock pulse measuring, spectrum analysis of shock pulse measurement data, Fast Fourier Transformation of vibration measurement data, graphical presentation of condition data on a user interface, storage of condition data in a writeable information carrier on said machine, storage of condition data in a writeable information carrier in said apparatus, tachometering, imbalance detection, misalignment detection.

24. (currently amended) The apparatus according to claim 12, wherein



said plurality of condition monitoring functions ~~(F1,~~  
~~F2,Fn)~~ includes a function for imbalance detection.

25. (currently amended) The apparatus according to  
claim [[26]] 12, wherein

said plurality of condition monitoring functions ~~(F1,~~  
~~F2,Fn)~~ includes a function for balancing.

26. (currently amended) The apparatus according to  
claim 12, wherein

said plurality of condition monitoring functions ~~(F1,~~  
~~F2,Fn)~~ includes a function for misalignment detection.

27. (currently amended) The apparatus according to  
claim [[28]] 12, wherein

said plurality of condition monitoring functions ~~(F1,~~  
~~F2,Fn)~~ includes a function for alignment.

28. (new) The system of claim 1, wherein the  
information indicative of the registered use delivered by the  
analysis apparatus to the supplier part computer is a usage  
report.

29. (new) The system of claim 28, wherein the analysis  
apparatus further comprises a timer, the analysis apparatus being

constructed and arranged so that if the analysis apparatus does not deliver the usage report before an end of a period of time measured by the timer, the analysis apparatus will disable one or more of the condition monitoring functions.

30. (new) The system of claim 28, wherein the supplier part computer is constructed and arranged to send a receipt to the analysis apparatus upon the supplier part receiving the usage report.

31. (new) The system of claim 30, wherein the analysis apparatus is constructed and arranged to disable one or more of the condition monitoring functions if the analysis apparatus does not receive the receipt after sending the usage report to the supplier part computer.

32. (new) The system of claim 30, wherein the analysis apparatus further comprises a user interface, the analysis apparatus being constructed and arranged to first provide a warning through the user interface when the analysis apparatus has not received the receipt from the supplier part computer within a first time period after sending the usage report, the analysis apparatus then disabling one or more of the condition monitoring functions if the analysis apparatus still has not received the receipt after a second time period.

33. (new) The system of claim 1, wherein the client part is constructed and arranged to communicate with the supplier part computer through a separate computer, the analysis apparatus being constructed and arranged to communicate with the separate computer through the communication port, the separate computer being constructed and arranged to communicate with the supplier part computer through a communication network.

34. (new) The system of claim 33, wherein the communication network is the internet.

35. (new) The system of claim 33, wherein the communication network is a switched telephone network.

36. (new) A system for analyzing a condition of a machine having a rotating shaft and a machine body with a measuring point, the system comprising:

a supplier part computer; and

a client part constructed so as to be connectable to a communications network to allow communication with the supplier part computer, the client part comprising:

a sensor constructed and arranged so as to allow attachment on or at said measuring point, the sensor being constructed to generate measurement data based rotation of the shaft of the machine; and

an analysis apparatus comprising:

at least one input connected to receive the measurement data from the sensor;

a data processor constructed to receive as an input the measurement data, the data processor being constructed to generate condition data dependent on said measurement data, the data processor being constructed to generate the condition data based on a plurality of condition monitoring functions;

a logger constructed so as to store a value indicative of an amount of use of at least one of the condition monitoring functions; and

a communication port coupled to the data processor and constructed so as to be connectable to the communications network so as to allow communication with the supplier part computer;

wherein the analysis apparatus is constructed so as to transfer to the supplier part computer, by way of the communication port, information representing the value indicative of an amount of use of at least one of the condition monitoring functions.

37. (new) The system according to claim 36, wherein the logger is constructed to adjust the stored value at a first rate to reflect use of a first of the condition monitoring

functions, and to adjust the stored value at a different second rate to reflect use of a second of the condition monitoring functions.

38. (new) The system according to claim 36, wherein the logger is constructed so that the stored value is indicative of a number of executions of at least one of the condition monitoring functions.

39. (new) The system according to claim 36, wherein the logger is constructed so that the stored value is indicative of an extent of time for which at least one of the condition monitoring functions was executed.